STATUS OF THE CLAIMS

- 1. (original) A method for obtaining stem cells from an umbilical cord matrix comprising: (a) fractionating the umbilical cord matrix source of cells, the source substantially free of cord blood, into a fraction enriched with stem cells, and a fraction depleted of stem cells, and (b) exposing the fraction enriched with stem cells to conditions suitable for cell proliferation.
- 2. (original) The method of claim 1 wherein the source of cell comprises umbilical cord Wharton's Jelly.
- 3. (original) A cultured isolate comprising stem cells isolated from an umbilical cord matrix source of stem cells, other than cord blood, the isolate comprising primitive immortal stem cells.
- 4-11. (canceled).
- 11. (original) The method of claim 9, wherein the transforming factor comprises non-viral vector, siRNA, or a mixture thereof.
- 12. (original) A method of generating a bank of stem cells from an umbilical cord matrix, the method comprising: (a) fractionating the umbilical cord matrix into a fraction enriched with stem cells and a fraction depleted of cells; and (b) culturing the fraction enriched with stem cells in a culture medium containing one or more growth factors, wherein the stem cells undergo mitotic expansion.
- 13. (original) The method of claim 12 further comprising tissue typing, banking and expanding the umbilical cord matrix stem cells needed.
- 14. (original) The method of claim 12 further comprising differentiating the umbilical cord matrix stem cells in vitro.

- 15. (canceled)
- 16. (original) The method of claim 12 further comprising passaging the umbilical cord stem cells for at least 10 times and the umbilical cord stem cells remaining stable.
- 17. (original) The method of claim 12 wherein the animal cells are from any amniotic species.
- 18. (original) The method of claim 12 wherein the animal cells are human cells.
- 19. (original) The method of claim 12 wherein the animal cells are porcine or bovine cells.
- 20. (original) The method of claim 12 wherein the animal cells are equine or canine cells.
- 21. (original) The method of claim 12 wherein the animal cells are rodent cells.
- 22. (original) The method of claim 12 wherein the animal cells are bird cells.
- 23. (original) A method of transplanting the transplantable cell of claim 4, the method comprising: culturing the umbilical cord matrix stem cells in a culture medium containing one or more growth factors wherein the stem cells undergo mitotic expansion.
- 24-31. (canceled)
- 32. (original) A method of transplanting the cell of claim 1, the method comprising: transplanting that cell into an animal that can benefit from a stem cell transplant.

- 33. (original) A method of treating an animal for alleviation of a disease symptom, the method comprising obtaining a UCMS cell isolated from a source of such cells derived from umbilical cord other than cord blood and transplanting that UCMS cell into an animal that can benefit from a stem cell transplant.
- 34. (original) A purified preparation of human UCMS cells comprising: (a) UCMS cells derived from Wharton's Jelly; capable of proliferation in an in vitro culture for over one year; (b) maintaining a karyotype in which all the chromosomes characteristic of the human are present and not noticeably altered through prolonged culture; and (c) maintaining the potential to differentiate into derivatives of endoderm, mesoderm or ectoderm tissues throughout the culture.
- 35. (original) The stem cells of claim 34 wherein the stem cells are capable of being typed, banked or expanded.

36-40. (canceled)

- 41. (original) A stem cell culture comprising a stem cell population and a feeder cell population, the culture comprising: (a) amniote stem cells capable of proliferation in an in vitro culture for over one year; (b) a feeder cell population comprising amniote UCMS cells, said feeder cells incapable of beginning or conducting a mitotic process, but capable of providing growth factors; (c) maintaining a karyotype in which all the chromosomes mammalian characteristics are present and not noticeably altered through prolonged culture; and (d) maintaining the potential to differentiate into derivatives of endoderm, mesoderm and ectoderm tissues throughout the culture.
- 42. (original) The stem cell culture of claim 41 wherein the stem cells are capable of being typed, banked or expanded.
- 43. (original) The stem cell culture of claim 42 wherein the stem cells and the feeder cells are of human origin.

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44-46. (canceled)